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Narayanswamy Subramanian	3624
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	(OR REMAINS) CLOSED in this appor other appropriate communication GHTS. This application is subject and MPEP 1308. Examiner. der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application Nocuments have been received in this entereous enterements. of this communication to file a reply ENT of this application. ditted. Note the attached EXAMINER is reason(s) why the oath or declared to be submitted. on's Patent Drawing Review (PTO as Amendment / Comment or in the energy enterements. SAMENDER AND STATE OF BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGICAL STATE OF BIOLOGICAL ST

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DETAILED ACTION

1. This communication is in response to the appeal brief filed on July 6, 2004. Applicant's arguments are persuasive and the Examiner withdraws the finality of rejection made in the office action mailed on February 5, 2004. Claims 1-27 are pending.

EXAMINER'S AMENDMENT/COMMENT

- 2. During an interview with Applicant's representative Mr. Andrew Spence on September 23, 2004, Attorney Spence agreed to the following amendments to claims 1 and 19 to overcome rejections under 35 USC 101. The amended claims are:
- 1. (Currently Amended) A <u>computer-implemented</u> method for performing a contingent claim valuation comprising:

determining a present value distribution of contingent future benefits attributable to the exercise of the contingent claim at a subsequent time, wherein determining the present value distribution of contingent future benefits comprises discounting a distribution of contingent future benefits according to a first discount rate;

determining a present value of a contingent future investment required to exercise the contingent claim at the subsequent time based upon a second discount rate that need not equal the first discount rate; and

determining a value of the contingent claim based upon the present value distribution of contingent future benefits and the present value of the contingent future investment,

wherein at least one of the determining steps is performed by a processing element.

19. (Currently Amended) A computer program product for performing a method of valuing a contingent claim, the computer program product comprising:

a computer-readable storage medium having computer-[readable] <u>executable</u> program code portions stored therein for performing the method, the method comprising:

determining a present value distribution of contingent future benefits attributable to the exercise of the contingent claim at a subsequent time, wherein determining a present value distribution comprises discounting a distribution of contingent future benefits according to a first discount rate;

determining a present value of a contingent future investment required to exercise the contingent claim at the subsequent time based upon a second discount rate that need not equal the first discount rate; and

determining a value of the contingent claim based upon the present value distribution of contingent future benefits and the present value of the contingent future investment.

Allowable Subject Matter

- 3. Claims 1-27 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

The claimed invention pertains to a computer-implemented method, system and a computer program product for performing a contingent claim valuation comprising determining a present value distribution of contingent future benefits attributable to the exercise of the contingent claim at a subsequent time using a first discount rate, determining a present value of a contingent future

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investment required to exercise the contingent claim at the subsequent time based upon a second discount rate, and determining a value of the contingent claim based upon the present value distribution of contingent future benefits and the present value of the contingent future investment.

The closest prior art Glasserman et al (US Patent 6,381,586) in combination with Shepherd (US Patent 6,157,918) and Makivic (US Patent 6,061,662) teaches all the features of the claimed invention except the steps of determining the present value distribution of contingent future benefits and determining a present value of a contingent future investment based upon a second discount rate that need not equal the first discount rate.

The searches separately made by the examiner and the Electronic Information Center on the databases of USPTO, European Patent Office, Japanese Patent Office, Derwent Database, Non-Patent literature Databases do not show any patent or non-patent literature regarding ideas, projects or applications disclosed by the instant invention.

The following list identifies the most relevant prior art pertinent to the claimed invention:

Glasserman et al (US Patent 6,381,586) in combination with Shepherd (US Patent 6,157,918) and Makivic (US Patent 6,061,662) teaches all the features of the claimed invention except the steps of determining the present value distribution of contingent future benefits and determining a present value of a contingent future investment based upon a second discount rate that need not equal the first discount rate.

<u>Uenohara et al</u> (EP 1178416 A1) discloses a system for correctly evaluating a price distribution and a risk distribution for a financial product or its derivatives by introducing a probability density function generated with a Boltzmann model. Uenohara fails to disclose most of the features of the claimed invention.

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Shapiro, Alan (Modern Corporate Finance) discloses a feature of using two different discount rates to compute the value of two cash flows of differing risks. Shapiro however fails to disclose the steps of determining the present value distribution of contingent future benefits and determining a present value of a contingent future investment based upon a second discount rate that need not equal the first discount rate.

Thus, the Examiner considers the novelty of the invention to be a computer-implemented method for performing a contingent claim valuation including the steps of determining the present value distribution of contingent future benefits and determining a present value of a contingent future investment based upon a second discount rate that need not equal the first discount rate.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Narayanswamy Subramanian whose telephone number is (703) 305-4878. The examiner can normally be reached Monday-Thursday from 8:30 AM to 7:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached at (703) 308-1065.

The fax number for Formal or Official faxes and Draft or Informal faxes to the Patent Office is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-1113.

N. Subramanian

September 23, 2004

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Vincent Millin

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